PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTHORITY **PCT** Freehills Patent & Trade Mark Attorneys MLC Centre WRITTEN OPINION OF THE Martin Place INTERNATIONAL SEARCHING AUTHORITY SYDNEY NSW 2000 (PCT Rule 43bis.1) Date of mailing DEC 2004 (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below S80768026:TPG International filing date (day/month/year) Priority date (day/month/year) International application No. 3 November 2003 PCT/AU2004/001521 3 November 2004 ternational Patent Classification (IPC) or both national classification and IPC ant. Cl. 7 A23L 3/015, 3/3436 Applicant COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION et al This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement Box No. VI Certain documents cited Certain defects in the international application Box No. VII Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later... For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Authorized Officer Name and mailing address of the IPEA/AU **AUSTRALIAN PATENT OFFICE** PO BOX 200, WODEN ACT 2606, AUSTRALIA **GILLIAN ALLEN** E-mail address: pct@ipaustralia.gov.au Telephone No. (02) 6283 2266 Facsimile No. (02) 6285 3929

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001521

Box	No. I Basis of the opinion			
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.			
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).			
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:			
	a. type of material			
•	a sequence listing			
	table(s) related to the sequence listing			
	b. format of material			
	in written format			
	in computer readable form			
	c. time of filing/furnishing			
	contained in the international application as filed.			
filed together with the international application in computer readable form.				
	furnished subsequently to this Authority for the purposes of search.			
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.			
4.	Additional comments:			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001521

Box No. V			43 <i>bis</i> .1(a)(i) with regard to no nations supporting such state	ovelty, inventive step or industrial ement	
1. Statement					
Nov	elty (N)	Claims	1-18	YES	
		Claims		NO	
Inve	ntive step (IS)	Claims	1-18	YES	
		Claims		NO	
Indu	strial applicability (IA)	Claims	1-18	YES	
		Claims		NO	
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Citations and explanations:

Citations

- D1 Tewari et al. Fresher Under Pressure Scientific Research High Pressure Processing of Foods: An Overview (FIRST PUBLISHED IN SCIENCE DES ALIMENTS, 19 (1999) P 619-661). http://www.fresherunderpressure.com/science hpp_review.htm
- D2 JP03183435. DAINIPPON PRINTING CO LTD. 9 August 1991. Chemical Abstracts AN 115:206608 CA
- D3 Raso J, Barbosa-Canovas GV. Nonthermal preservation of foods using combined processing techniques. Crit Rev Food Sci Nutr. 2003;43(3):265-85
- D4 Ross AI, Griffiths MW, Mittal GS, Deeth HC. Combining nonthermal technologies to control foodborne microorganisms. Int J Food Microbiol. 2003 Dec 31;89(2-3):125-38.

Novelty

None of the prior art discloses methods of inactivating microbial spores by a combination of ultra high pressure processing and oxygen absorption. Therefore all claims are novel.

Inventive Step

The problem of the invention is to inactivate microbial spores in stored food. The applicants' solution to the problem is to treat food combination of ultra high pressure processing and oxygen absorption by oxygen scavenging materials.

D1 and D2 both disclose methods of treating food with a combination of high pressure and oxygen scavengers to kill vegetative microbes. However, neither teaches the use of these processes to inactivate microbial spores. It is therefore considered that the person skilled in the art faced with the problem of the invention would not be led by the prior art to consider inactivating microbial spores by the processes of the present claims. Therefore all claims are considered inventive.